

ABSTRACT OF THE DISCLOSURE

5 A glass material for use in a microwave-transparent window of a plasma processing apparatus is provided. The glass material has not only good properties similar to those of quartz glass but a corrosion resistance particularly to fluorine-containing plasma. The glass having the corrosion resistance to the fluorine-containing plasma is composed of a first glass phase consisting of Si and O and a second glass phase consisting of Si, Al and O. The second glass phase has a mass ratio of Al to Si of at least 0.01. The glass member is useful as a component for forming an electromagnetic-wave introducing window of the plasma processing apparatus or the like.

10